

```
' PIC16F819
'* SET UP BASIC ENVIRONMENT
       DEFINE CHAR_PACING 1000
' PORTA.0 = CURRENT SENSE
' PORTA.1 = POT
' PORTA.2 = THERMISTOR
 PORTA.3 - VOLTAGE SENSE
 PORTA.4 =
' PORTA.5 =
' PORTB.0 =
' PORTB.1 =
' PORTB.2 = NPN
' PORTB.3 = FORMERLY NPN
' PORTB.4 = PNP
' PORTB.5 =
' PORTB.6 =
' PORTB.7 =
*****************
1 *
                     ENVIRONMENT
* *
       DEFINE CHAR_PACING 1000
***************
1 *
* *
                      VARIABLES
1 *
*********************
N
       VAR
              BYTE
Х
       VAR
              BYTE
Y
       VAR
              BYTE
\mathbf{z}
       VAR
              BYTE
X2
       VAR
              WORD
YZ
       VAR
              WORD
MISCF
       VAR
              BYTE
                     BANKO
LCNT
       VAR
              BYTE
VOLTS
       VAR
              WORD
VOUT
       VAR
              WORD
CURRENT VAR
              WORD
AMP
       VAR
              WORD
TEMP
       VAR
              WORD
VIDLE
       VAR
              WORD
VMAX
       VAR
              WORD
POTBUF VAR
              WORD(8)
ACNT
       VAR
              BYTE
ALOOP
       VAR
              BYTE
ELCOP
       VAR
              BYTE
PVOLT
       VAR
              WORD
OTIME
      VAR
              WORD
                     BANK0
BUCK
       VAR
              BYTE
       VAR BYTE BANKO SYSTEM
ssave
psave VAR BYTE BANKO SYSTEM
WBave VAR BYTE $20 SYSTEM
wsavel VAR BYTE $AO SYSTEM
```

' ***** LCD PANEL *****